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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,614	01/11/2002	Jay P. Hoeflinger	INTL-0664-US	9475
7590 12/23/2004			EXAMINER	
Timothy N. Trop TROP, PRUNER & HU, P.C.			NAHAR, QAMRUN	
STE 100		ART UNIT	PAPER NUMBER	
8554 KATY FWY HOUSTON, TX 77024-1805			2124	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summan	10/044,614	HOEFLINGER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Qamrun Nahar	2124				
The MAILING DATE of this communication app Period for Reply	ears on the cover she it with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 Ja	anuary 2002.					
2a) ☐ This action is FINAL. 2b) ☒ This	☐ This action is FINAL. 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-30 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 11 January 2002 is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119		·				
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)	· ·					
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				
.S. Patent and Trademark Office						

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DETAILED ACTION

1. Claims 1-30 have been examined.

Specification

2. The disclosure is objected to because of the following informalities: "Summary of the Invention" section is missing.

Appropriate correction is required.

3. The disclosure is objected to because of the following informalities: under the "Brief Description of the Drawings" section, description for figures 5A and 5B is missing.

Furthermore, there is no figure labeled "Figure 5".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 2-3, 10-11, 18-21 and 23-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 6. Claims 2, 10 and 23 recite the limitation "the address" in line 2 of the claims. There is insufficient antecedent basis for this limitation in the claims. Therefore, this limitation is interpreted as "an address".

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Claims 3, 11, 24 are rejected for dependency upon rejected base claim above.

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7. Claim 18 recites the limitation "the address" in line 9 of the claim. There is insufficient antecedent basis for this limitation in the claim. Therefore, this limitation is interpreted as "an address".

Claims 19-21 are rejected for dependency upon rejected base claim above.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Poulsen (U.S 5,812,852).

Per Claim 1:

The Poulsen patent discloses:

- a method comprising: receiving a first program unit in a parallel computing environment having a team of parallel threads including at least a first and second thread, the first program unit including a memory copy operation to be performed between the first thread and the second thread (column 4, lines 62-67)

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- and translating the first program unit into a second program unit, the second program

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unit to associate the memory copy operation with a set of one or more instructions, the set

of instructions to ensure that the second thread copies data based, in part, on a first

descriptor associated with the first thread (column 4, line 67 to column 5, lines 1-20).

Per Claim 2 (as best understood):

The Poulsen patent discloses:

- further comprising copying an address of the first descriptor to a buffer and copying data

into a memory area associated with the second thread based, in part, on address and data

information associated with the first descriptor (column 5, lines 11-20).

Per Claim 3 (as best understood):

The Poulsen patent discloses:

- further comprising copying data into a memory area associated with second thread

utilizing, in part, a second descriptor associated with the second thread (column 6, lines 64-

67 to column 7, lines 1-6).

Per Claim 4:

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- further comprising enabling the first thread to copy an address of the first descriptor to a

buffer and setting a signal to enable the second thread to copy data associated with the first

descriptor to a memory area associated with the second thread (column 6, lines 64-67 to

column 7, lines 1-6).

Per Claim 5:

The Poulsen patent discloses:

- further comprising enabling the first thread to enter a wait state after the signal is set

(column 6, lines 64-67 to column 7, lines 1-6).

Per Claim 6:

The Poulsen patent discloses:

- further comprising releasing the first thread from a wait state upon completion of the

data copy operation by the second thread (column 6, lines 64-67 to column 7, lines 1-6).

Per Claim 7:

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- further comprising enabling the first thread to copy an address the first descriptor to one

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of two buffer areas (column 6, lines 64-67 to column 7, lines 1-6).

Per Claim 8:

The Poulsen patent discloses:

- further comprising receiving the first program unit in source code format and translating

the first program unit into a second program unit in source code format (column 8, lines 28-

39).

Per Claims 9, 10-11 (as best understood), 12-15 & 17:

These are machine-readable medium versions of the claimed method discussed above

(claims 1-8, respectively), wherein all claim limitations also have been addressed and/or covered

in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Poulsen.

Per Claim 16:

This is a machine-readable medium version of the claimed method discussed above,

claim 3, wherein all claim limitations also have been addressed and/or covered in cited areas as

set forth above. Thus, accordingly, this claim is also anticipated by Poulsen.

Per Claim 18 (as best understood):

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- a method comprising: receiving a first program unit in a parallel computing environment

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and translating the first program unit, in part, into one or more computer instructions, the

instructions enabling a second thread in a team of threads to copy data, into a memory

area associated with the second thread, from a private memory area associated with a first

thread (column 4, line 67 to column 5, lines 1-20)

- and copying an address of a descriptor into a buffer utilized by the second thread, in part,

to copy data from the memory area associated with the first thread (column 5, lines 11-20).

Per Claim 19 (as best understood):

The Poulsen patent discloses:

- further comprising creating a descriptor utilized, in part, by the second thread to copy

data into the memory area associated with the second thread (column 5, lines 11-14).

Per Claim 20 (as best understood):

The Poulsen patent discloses:

- further comprising setting a signal by the first thread enabling the second thread to copy

the data from the memory area associated with the first thread (column 6, lines 64-67 to

column 7, lines 1-6).

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Per Claim 21 (as best understood):

The Poulsen patent discloses:

- further comprising entering a wait state by the first thread until the second thread copies

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the data from the memory area associated with the first thread (column 6, lines 64-67 to

column 7, lines 1-6).

Per Claims 22, 23-24 (as best understood) & 25-28:

These are apparatus versions of the claimed method discussed above (claims 1-6 & 8,

respectively), wherein all claim limitations also have been addressed and/or covered in cited

areas as set forth above, including "a memory including a shared memory location" (column 8,

lines 28-45). Thus, accordingly, these claims are also anticipated by Poulsen.

Per Claim 29:

The Poulsen patent discloses:

- wherein the first descriptor is passed to the first program unit (column 8, lines 46-51).

Per Claim 30:

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- wherein the translation unit translates the first program unit, in part, into a second program unit in source code format and the second program unit includes the memory copy operation (column 8, lines 28-39).

Conclusion

10. Any inquiry concerning this communication from the examiner should be directed to Qamrun Nahar whose telephone number is (571) 272-3730. The examiner can normally be reached on Mondays through Thursdays from 8:30 AM to 6:00 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number for the organization where this application or processing is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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QN

December 4, 2004

TODD INGBERG PRIMARY EXAMINER